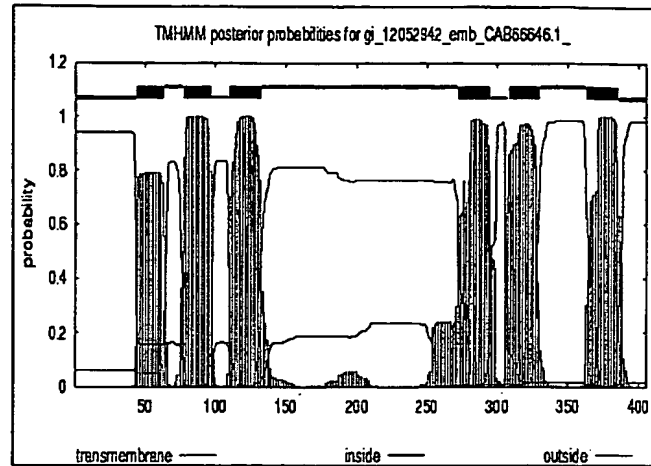


FIG. 1



CDS Prediction Server for Transmembrane Proteins

gi_12052942_emb_CAB66646.1 Length: 406
 # gi_12052942_emb_CAB66646.1 Number of predicted TMHs: 6
 # gi_12052942_emb_CAB66646.1 Exp number of AAs in TMHs: 132.21029
 # gi_12052942_emb_CAB66646.1 Exp number, first 60 AAs: 13.48568
 # gi_12052942_emb_CAB66646.1 Total prob of N-in: 0.94086
 # gi_12052942_emb_CAB66646.1 POSSIBLE N-term signal sequence

gi_12052942_emb_CAB66646.1 TMHMM2.0inside 1 43
 gi_12052942_emb_CAB66646.1 TMHMM2.0TMhelix 44 63
 gi_12052942_emb_CAB66646.1 TMHMM2.0outside 64 77
 gi_12052942_emb_CAB66646.1 TMHMM2.0TMhelix 78 97
 gi_12052942_emb_CAB66646.1 TMHMM2.0inside 98 109
 gi_12052942_emb_CAB66646.1 TMHMM2.0TMhelix 110 132
 gi_12052942_emb_CAB66646.1 TMHMM2.0outside 133 272
 gi_12052942_emb_CAB66646.1 TMHMM2.0TMhelix 273 295
 gi_12052942_emb_CAB66646.1 TMHMM2.0inside 296 307
 gi_12052942_emb_CAB66646.1 TMHMM2.0TMhelix 308 330
 gi_12052942_emb_CAB66646.1 TMHMM2.0outside 331 362
 gi_12052942_emb_CAB66646.1 TMHMM2.0TMhelix 363 385
 gi_12052942_emb_CAB66646.1 TMHMM2.0inside 386 406

FIG. 2

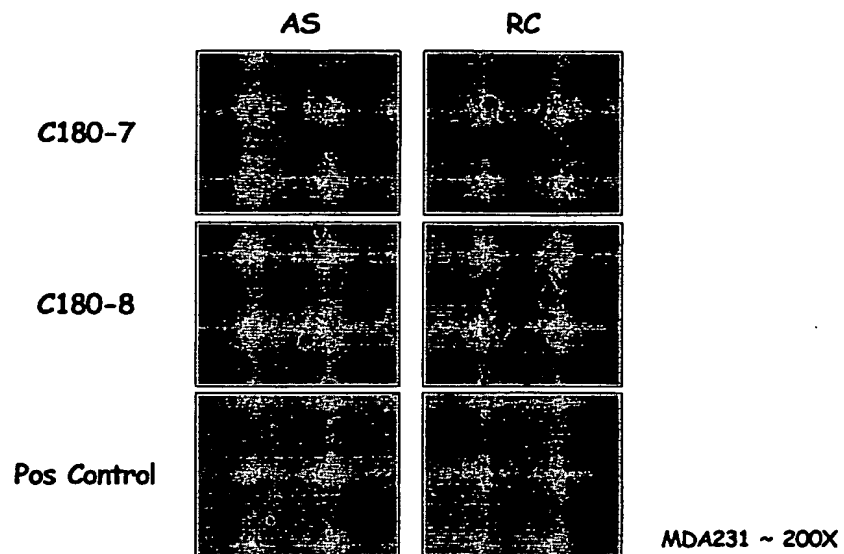


FIG. 3

FIG. 4

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PCT/US03/00657

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Spot 22793 mapped to VMP1

VMP1: 1087 gtgctgtccccgcataggtccatctctgcagaagccatttcaggagtacctggaggctc 1146
 |||
 22793: 156 gtgctgtccccgcataggtccatctctgcagaagccatttcaggagtacctggaggctc 215

VMP1: 1147 aacggcagaagcttcaccacaaaagcgaaatgggcacaccacagggagaaaaactggttgt 1206
 |||
 22793: 216 aacggcagaagcttcaccacaaaagcgaaatgggcacaccacagggagaaaaactggttgt 275

VMP1: 1207 cctggatgtttgaaaagttggtcgttgatggtgtgttacttcattcctatctatcatta 1266
 |||
 22793: 276 cctggatgtttgaaaagtcggtcgttgatggtgtgttacttcattcctatctatcatta 335

VMP1: 1267 actccatggcacaaagttatgccaaacgaatccagcagcggttgaactcagaggagaaaa 1326
 |||
 22793: 336 actccatggcacaaagttatgccaaacgaatccagcagcggttgaactcagaggagaaaa 395

VMP1: 1327 ctaaataagtagagaaagttttaactgcagaaattggagtggatgggttctgccttaaa 1386
 |||
 22793: 396 ctaaataagtagagaaagttttaactgcagaaattggagtggatgggttctgccttata 455

VMP1: 1387 ttgggaggactccaagccgggaaggaaaaattccctttt 1424
 |||
 22793: 456 ttgggaggactccaagccgggaaggaaaaattccctttt 493

Spot 27450 mapped to VMP1

VMP1: 2330 tgtgttaatgttttctagcatgtactctggtttcaacagacacaaatttatatgttaacc 2389
 |||
 27450: 1 tgtgttaatgttttctagcatgtactctggtttcaacagacacaaatttatatgttaacc 60

VMP1: 2390 cagttttcttgccgttctgtaagtgttttattcttagtgatgtttttccattgggatg 2449
 |||
 27450: 61 cagttttcttgccgttctgtaagtgttttattcttagtgatgtttttccattgggatg 120

VMP1: 2450 tttttgattgaacttggttcattttgttttgcttgggagggaaaaataaacaattttactttt 2509
 |||
 27450: 121 tttttgattgaacttggttcattttgttttgcttgggagggaaaaataaacaattttactttt 180

VMP1: 2510 ttcctt 2515
 |||
 27450: 181 ttcctt 186

Spot 26883 mapped to VMP1

VMP1: 1187 acagggagaaaaactggttgctcctggatgtttgaaaagttggtcgttgatggtgtgtta 1246
 |||
 26883: 257 acagggagaaaaactggttgctcctggatgtttgaaaagttggtcgttgatggtgtgtta 316

VMP1: 1247 cttcatcctatctatcattaactccatggcacaaagttatgccaaacgaatccagcag 1304
 |||
 26883: 317 cttcatcctatctatcattaactccatggcacaaagttatgccaaacgaatccagcag 374

FIG. 5